

CLAIMS

1. A flax seed having a linolenic acid content of greater than 65% of the total fatty acid content of said seed.
2. The flax seed of claim 1 wherein the linolenic acid content is greater than 70%.
3. A flax seed that is the product of a plant line designated M5791.
4. A flax plant which produces seeds having a linolenic acid content of greater than 65% of the total fatty acid content of said seed.
5. The flax plant of claim 4 wherein the linolenic acid content is greater than 70%.
6. A flax plant designated M5791.
7. Progeny of a flax plant designated M5791, wherein said progeny produce seeds having a linolenic acid content of greater than 65% of the total fatty acid content of said seed.
8. The progeny according to claim 7 wherein the linolenic acid content is greater than 70%.
9. Seeds from the flax plants of claims 4, 5, 6, 7 or 8.
10. Oil manufactured from the seeds of claims 1, 2, 3 or 9.
11. A product containing flax seed of claims 1, 2, 3 or 8.
12. The product of claim 11 wherein the flax seed is milled.
13. A method of producing a flax plant line comprising the steps of:
 - (a) crossing a plant of a flax plant line designated M5791, or progeny thereof, with an agronomically elite flax plant; and

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(b) selecting at least one decendant of said cross, said decendant producing seeds having a linolenic acid content of greater than 65% relative to the total fatty acid content of said seed.

14. A product comprising meal remaining from oil extraction of flax seeds having a linolenic acid content of greater than 65%.